BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at NTI layout, IECHS Layout, Defence Layout and Surrounding areas in Ward No. 09, Vidyaranyapura

Estimated Cost : Rs. 60.00 Lakhs

Job Code: 009-20-000074

Head of Account : P-0541 Emergency Reserve Fund

Name of Agency: Sri. Aswathnarayana, # 38, Chanappa layout, Sharadhambhanagara, Jalahalli Village, Bangalore - 560013

Work order No: BBMP/EE/BTP/WO/203/2020-21 Dated: 04-03-2021

Measurements Recarded on : 17/05/21

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit
1	**Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								Cum
	New Drain								
	NTI Layout								
	1sr Cross Road								
	From 10th Main	2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	14.00			0.45	0.45	5.67	
	7th Cross BEL 4th Block								
	From Ganesha Temple Road	2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	3.00			0.45	0.45	1.22	
	2nd Cross								
	From 10th Main	2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

170.91

Sl No	Description of work	Mesurement						Qty	Rate / Unit
		No.	L	B1	B2	Av.,B	D		
		2.00	15.00			0.45	0.45	6.08	170.91
		2.00	9.30			0.45	0.45	3.77	
	2nd Cross Sapthagiri Layout								
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	5.00			0.45	0.45	2.03	
	4th Cross Sapthagiri Layout								
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.00			0.45	0.45	6.08	
		2.00	15.70			0.45	0.45	6.36	
	Berm Cutting								
	NTI Layout								
	1sr Cross Road								
	From 10th Main	2.00	15.00			1.20	0.15	5.40	
		2.00	15.00			0.95	0.20	5.70	
		2.00	15.00			0.85	0.30	7.65	
		2.00	15.00			0.60	0.15	2.70	
		2.00	15.00			0.60	0.25	4.50	
		2.00	15.00			0.95	0.20	5.70	
		2.00	15.00			0.85	0.25	6.38	
		2.00	15.00			0.95	0.30	8.55	
		2.00	15.00			1.00	0.25	7.50	
		2.00	15.00			1.00	0.20	6.00	
		2.00	15.00			0.90	0.20	5.40	
		2.00	15.00			0.95	0.30	8.55	
		2.00	15.00			0.95	0.25	7.13	
		2.00	14.00			0.85	0.25	5.95	
	7th Cross BEL 4th Block								
	From Ganesha Temple Road	1.00	15.00			0.95	0.20	2.85	
		1.00	15.00			1.00	0.15	2.25	
		1.00	15.00			1.00	0.25	3.75	
		1.00	15.00			0.95	0.30	4.28	
		1.00	15.00			0.90	0.25	3.38	
		1.00	15.00			0.95	0.20	2.85	
		2.00	15.00			1.10	0.25	8.25	
		2.00	15.00			0.90	0.25	6.75	
		2.00	3.00			0.85	0.30	1.53	
	2nd Cross								
	From 10th Main	1.00	15.00			0.95	0.25	3.56	
		1.00	15.00			1.00	0.20	3.00	
		1.00	15.00			0.95	0.25	3.56	
		1.00	15.00			0.90	0.20	2.70	
		1.00	15.00			0.85	0.20	2.55	
		1.00	15.00			0.90	0.15	2.03	
		1.00	15.00			0.90	0.20	2.70	
		1.00	9.30			0.75	0.25	1.74	
	2nd Cross Sapthagiri Layout								
		1.00	15.00			0.95	0.25	3.56	
		1.00	15.00			0.95	0.20	2.85	
		1.00	15.00			0.85	0.25	3.19	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

29.8.23

No	Description of work	Mesurement						Qty	Rate / Unit
		No.	L	B1	B2	Av.,B	D		
		1.00	15.00			0.90	0.20	2.70	398-23
		1.00	15.00			0.80	0.20	2.40	
		1.00	5.00			0.90	0.25	1.13	
	4th Cross Sapthagiri Layout								
		1.00	15.00			0.95	0.20	2.85	
		1.00	15.00			0.90	0.20	2.70	
		1.00	15.00			0.85	0.20	2.55	
		1.00	15.00			0.90	0.15	2.03	
		1.00	15.70			0.80	0.20	2.51	
								417.10	
	Total							413.75	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No	Description of work	Mesurement						Qty	Rate / Uni
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on : 19-05-2021								
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)								Sqm
	Drain Cover Slab								
	NTI Layout								
	1sr Cross Road								
	From 10th Main	2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	14.00			1.35		37.80	
	7th Cross BEL 4th Block								
	From Ganesha Temple Road	2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		2.00	3.00			1.35		8.10	
	2nd Cross From 10th Main	2.00	15.00			1.35		40.50	
		2.00	15.00			1.35		40.50	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		2.00	9.30			1.35		25.11	
	2nd Cross Sapthagiri Layout	1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	5.00			1.35		6.75	
	4th Cross Sapthagiri Layout	1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
		1.00	15.00			1.35		20.25	
								1292.76	
	Total							1282.50	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit
	Measurements Recarded on : 21-05-2021								
4	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification								Cum
	Coping Concrete								
	NTI Layout 5th Cross								
	From 11th Main E/S	2.00	8.20			0.30	0.10	0.49	
		2.00	9.50			0.30	0.10	0.57	
		2.00	18.60			0.30	0.10	1.12	
		2.00	4.30			0.30	0.10	0.26	
		2.00	5.80			0.30	0.10	0.35	
		2.00	9.20			0.30	0.10	0.55	
		2.00	1.20			0.30	0.10	0.07	
		2.00	8.50			0.30	0.10	0.51	
		2.00	6.00			0.30	0.10	0.36	
	From 11th Main W/S								
		2.00	0.60			0.30	0.10	0.04	
		2.00	26.20			0.30	0.10	1.57	
		2.00	9.40			0.30	0.10	0.56	
		2.00	7.30			0.30	0.10	0.44	
		2.00	5.40			0.30	0.10	0.32	
		2.00	9.00			0.30	0.10	0.54	
		2.00	1.80			0.30	0.10	0.11	
		2.00	6.10			0.30	0.10	0.37	
		2.00	3.05			0.30	0.10	0.18	
	6th Cross E/S								
		2.00	12.30			0.30	0.10	0.74	
		2.00	10.60			0.30	0.10	0.64	
		2.00	5.90			0.30	0.10	0.35	
		2.00	3.10			0.30	0.10	0.19	
		2.00	6.00			0.30	0.10	0.36	
		2.00	4.30			0.30	0.10	0.26	
		2.00	18.30			0.30	0.10	1.10	
	6th Cross W/S								
		2.00	5.30			0.30	0.10	0.32	
		2.00	6.10			0.30	0.10	0.37	
		2.00	3.00			0.30	0.10	0.18	
		2.00	1.50			0.30	0.10	0.09	
		2.00	6.20			0.30	0.10	0.37	
		2.00	9.00			0.30	0.10	0.54	
		2.00	6.40			0.30	0.10	0.38	
		2.00	9.20			0.30	0.10	0.55	
	10th Main NTI Layout								
	N/S	2.00	8.90			0.30	0.10	0.53	
		2.00	9.10			0.30	0.10	0.55	
		2.00	12.90			0.30	0.10	0.77	

16.70

Assistant Executive Engineer
Jnanabharathi Sub Division
BDA, Bangalore-97

Sl No	Description of work	Mesurement						Qty	Rate / Uni
		No.	L	B1	B2	Av.,B	D		
		2.00	10.70			0.30	0.10	0.64	
		2.00	0.60			0.30	0.10	0.04	
		2.00	4.80			0.30	0.10	0.29	
		2.00	6.20			0.30	0.10	0.37	
	S/S								
		2.00	1.80			0.30	0.10	0.11	
		2.00	15.80			0.30	0.10	0.95	
		2.00	0.75			0.30	0.10	0.05	
		2.00	10.00			0.30	0.10	0.60	
		2.00	15.00			0.30	0.10	0.90	
		2.00	4.20			0.30	0.10	0.25	
		2.00	18.00			0.30	0.10	1.08	
	9th Main NTI Layout from 5th Cross to 1st Cross								
	N/S	2.00	27.10			0.30	0.10	1.63	
		2.00	15.30			0.30	0.10	0.92	
		2.00	30.00			0.30	0.10	1.80	
		2.00	3.70			0.30	0.10	0.22	
		2.00	3.00			0.30	0.10	0.18	
		2.00	19.40			0.30	0.10	1.16	
	S/S								
		2.00	22.10			0.30	0.10	1.33	
		2.00	12.50			0.30	0.10	0.75	
		2.00	8.70			0.30	0.10	0.52	
		2.00	21.60			0.30	0.10	1.30	
		2.00	1.20			0.30	0.10	0.07	
		2.00	4.30			0.30	0.10	0.26	
		2.00	9.30			0.30	0.10	0.56	
		2.00	5.70			0.30	0.10	0.34	
		2.00	6.90			0.30	0.10	0.41	
		2.00	3.80			0.30	0.10	0.23	
	1st Cross NTI Layout								
	E/S	2.00	30.00			0.30	0.10	1.80	
		2.00	30.00			0.30	0.10	1.80	
		2.00	27.30			0.30	0.10	1.64	
		2.00	7.80			0.30	0.10	0.47	
		2.00	14.50			0.30	0.10	0.87	
		2.00	18.70			0.30	0.10	1.12	
		2.00	3.80			0.30	0.10	0.23	
		2.00	23.50			0.30	0.10	1.41	
		2.00	10.30			0.30	0.10	0.62	
	W/S								
		2.00	6.90			0.30	0.10	0.41	
		2.00	1.50			0.30	0.10	0.09	
		2.00	16.30			0.30	0.10	0.98	
		2.00	18.20			0.30	0.10	1.09	
		2.00	7.80			0.30	0.10	0.47	

16.70

46.64

Assistant Executive Engineer
Vidyaranyapura Sub-Division
BBMP, Bangalore

Pre-Measurement

No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit
		2.00	8.20			0.30	0.10	0.49	46.64
		2.00	8.60			0.30	0.10	0.52	
		2.00	30.00			0.30	0.10	1.80	
		2.00	1.20			0.30	0.10	0.07	
	2nd Cross NTI Layout								
	E/S								
		2.00	9.00			0.30	0.10	0.54	
		2.00	8.40			0.30	0.10	0.50	
		2.00	20.00			0.30	0.10	1.20	
	W/S								
		2.00	5.90			0.30	0.10	0.35	
		2.00	7.70			0.30	0.10	0.46	
		2.00	5.30			0.30	0.10	0.32	
		2.00	7.40			0.30	0.10	0.44	
		2.00	7.80			0.30	0.10	0.47	
		2.00	1.20			0.30	0.10	0.07	
		2.00	5.00			0.30	0.10	0.30	
	Vent								
	10th Main NTI Layout								
	N/S	1.00	8.90			0.45	0.15	0.60	
		1.00	9.10			0.45	0.15	0.61	
		1.00	12.90			0.45	0.15	0.87	
		1.00	10.70			0.45	0.15	0.72	
		1.00	0.60			0.45	0.15	0.04	
		1.00	4.80			0.45	0.15	0.32	
		1.00	6.20			0.45	0.15	0.42	
	S/S								
		1.00	1.80			0.45	0.15	0.12	
		1.00	15.80			0.45	0.15	1.07	
		1.00	0.75			0.45	0.15	0.05	
		1.00	10.00			0.45	0.15	0.68	
		1.00	15.00			0.45	0.15	1.01	
		1.00	4.20			0.45	0.15	0.28	
		1.00	18.00			0.45	0.15	1.22	
	1st Cross NTI Layout								
	E/S	1.00	30.00			0.45	0.15	2.03	
		1.00	30.00			0.45	0.15	2.03	
		1.00	27.30			0.45	0.15	1.84	
		1.00	7.80			0.45	0.15	0.53	
		1.00	14.50			0.45	0.15	0.98	
		1.00	18.70			0.45	0.15	1.26	
		1.00	3.80			0.45	0.15	0.26	
		1.00	23.50			0.45	0.15	1.59	
		1.00	10.30			0.45	0.15	0.70	
	W/S								
		1.00	6.90			0.45	0.15	0.47	
		1.00	1.50			0.45	0.15	0.10	73.96

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No	Description of work	Mesurement						Qty	Rate / Un
		No.	L	B1	B2	Av.,B	D		
		1.00	16.30			0.45	0.15	1.10	
		1.00	18.20			0.45	0.15	1.23	
		1.00	7.80			0.45	0.15	0.53	
		1.00	8.20			0.45	0.15	0.55	
		1.00	8.60			0.45	0.15	0.58	
		1.00	30.00			0.45	0.15	2.03	
		1.00	1.20			0.45	0.15	0.08	
	6th Cross W/S								
		1.00	5.30			0.45	0.15	0.36	
		1.00	6.10			0.45	0.15	0.41	
		1.00	3.00			0.45	0.15	0.20	
		1.00	1.50			0.45	0.15	0.10	
		1.00	6.20			0.45	0.15	0.42	
		1.00	9.00			0.45	0.15	0.61	
		1.00	6.40			0.45	0.15	0.43	
		1.00	9.20			0.45	0.15	0.62	
	6th Cross E/S								
		1.00	12.30			0.45	0.15	0.83	
		1.00	10.60			0.45	0.15	0.72	
		1.00	5.90			0.45	0.15	0.40	
		1.00	3.10			0.45	0.15	0.21	
		1.00	6.00			0.45	0.15	0.41	
								85.77	
	Total							**85.50**	

73.96

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

No	Description of work	Mesurement						Qty	Rate / Unit
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :	30-05-2021							
8	**Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead								Cum
	NTI Layout								
	1sr Cross Road								
	From 10th Main	1.00	15.00	1.50	1.20	1.35	0.20	4.05	
		1.00	15.00	1.20	1.30	1.25	0.20	3.75	
		1.00	15.00	1.30	1.20	1.25	0.20	3.75	
		1.00	15.00	1.20	1.30	1.25	0.20	3.75	
		1.00	15.00	1.30	1.20	1.25	0.20	3.75	
		1.00	15.00	1.20	1.30	1.25	0.20	3.75	
		1.00	15.00	1.30	1.20	1.25	0.20	3.75	
		1.00	15.00	1.20	1.30	1.25	0.20	3.75	
		1.00	15.00	1.30	1.35	1.33	0.20	3.98	
		1.00	15.00	1.35	1.40	1.38	0.20	4.13	
		1.00	15.00	1.40	1.20	1.30	0.20	3.90	
		1.00	15.00	1.20	1.30	1.25	0.20	3.75	
		1.00	15.00	1.30	1.40	1.35	0.20	4.05	
		1.00	14.00	1.40	1.50	1.45	0.20	4.06	
	7th Cross BEL 4th Block								
	From Ganesha Temple Road	1.00	15.00	1.30	1.20	1.25	0.20	3.75	
		1.00	15.00	1.30	1.40	1.35	0.20	4.05	
		1.00	15.00	1.40	1.50	1.45	0.20	4.35	
		1.00	15.00	1.50	1.30	1.40	0.20	4.20	
		1.00	15.00	1.30	1.20	1.25	0.20	3.75	
		1.00	15.00	1.20	1.30	1.25	0.20	3.75	
		1.00	15.00	1.30	1.50	1.40	0.20	4.20	
		1.00	15.00	1.50	1.20	1.35	0.20	4.05	
		1.00	3.00	1.20	1.30	1.25	0.20	0.75	
	2nd Cross From 10th Main	1.00	15.00	1.50	1.80	1.65	0.15	3.71	
		1.00	15.00	1.80	1.10	1.45	0.15	3.26	
		1.00	15.00	1.10	1.30	1.20	0.15	2.70	
		1.00	15.00	1.30	1.20	1.25	0.15	2.81	
		1.00	15.00	1.20	1.30	1.25	0.15	2.81	
		1.00	15.00	1.30	1.40	1.35	0.15	3.04	
		1.00	15.00	1.40	1.50	1.45	0.15	3.26	
		1.00	9.30	1.50	1.80	1.65	0.15	2.30	
	2nd Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25	0.15	2.81	
		1.00	15.00	1.20	1.40	1.30	0.15	2.93	
		1.00	15.00	1.40	1.50	1.45	0.15	3.26	
		1.00	15.00	1.50	1.30	1.40	0.15	3.15	
		1.00	15.00	1.30	1.50	1.40	0.15	3.15	
		1.00	5.00	1.50	1.60	1.55	0.15	1.16	
	4th Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25	0.15	2.81	
		1.00	15.00	1.30	1.50	1.40	0.15	3.15	
		1.00	15.00	1.50	1.30	1.40	0.15	3.15	
		1.00	15.00	1.20	1.30	1.25	0.15	2.81	
								139.30	
	Total							135.88	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Uni
	Measurements Recarded on : 05-06-2021								
19	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications								Cum
	NTI Layout								
	1sr Cross Road								
	From 10th Main	1.00	15.00	1.50	1.20	1.35	0.25	5.06	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.35	1.33	0.25	4.97	
		1.00	15.00	1.35	1.40	1.38	0.25	5.16	
		1.00	15.00	1.40	1.20	1.30	0.25	4.88	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.40	1.35	0.25	5.06	
		1.00	14.00	1.40	1.50	1.45	0.25	5.08	
	7th Cross BEL 4th Block from Temple Road	1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.30	1.40	1.35	0.25	5.06	
		1.00	15.00	1.40	1.50	1.45	0.25	5.44	
		1.00	15.00	1.50	1.30	1.40	0.25	5.25	
		1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.50	1.40	0.25	5.25	
		1.00	15.00	1.50	1.20	1.35	0.25	5.06	
		1.00	3.00	1.20	1.30	1.25	0.25	0.94	
	2nd Cross From 10th Main	1.00	15.00	1.50	1.80	1.65	0.25	6.19	
		1.00	15.00	1.80	1.10	1.45	0.25	5.44	
		1.00	15.00	1.10	1.30	1.20	0.25	4.50	
		1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
		1.00	15.00	1.30	1.40	1.35	0.25	5.06	
		1.00	15.00	1.40	1.50	1.45	0.25	5.44	
		1.00	9.30	1.50	1.80	1.65	0.25	3.84	
	2nd Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.20	1.40	1.30	0.25	4.88	
		1.00	15.00	1.40	1.50	1.45	0.25	5.44	
		1.00	15.00	1.50	1.30	1.40	0.25	5.25	
		1.00	15.00	1.30	1.50	1.40	0.25	5.25	
		1.00	5.00	1.50	1.60	1.55	0.25	1.94	
	4th Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25	0.25	4.69	
		1.00	15.00	1.30	1.50	1.40	0.25	5.25	
		1.00	15.00	1.50	1.30	1.40	0.25	5.25	
		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
								195.91	
	Total							195.62	2001.00

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

No	Description of work	No.	Mesurement L	B1	B2	Av.,B	D	Qty	Rate / Unit
	Measurements Recarded on : 09-06-2021								
9	Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of								Sqm
	NTI Layout								
	1sr Cross Road								
	From 10th Main	1.00	15.00	1.50	1.20	1.35		20.25	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.35	1.33		19.88	
		1.00	15.00	1.35	1.40	1.38		20.63	
		1.00	15.00	1.40	1.20	1.30		19.50	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.40	1.35		20.25	
		1.00	14.00	1.40	1.50	1.45		20.30	
	7th Cross BEL 4th Block								
	From Ganesha Temple Road	1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.30	1.40	1.35		20.25	
		1.00	15.00	1.40	1.50	1.45		21.75	
		1.00	15.00	1.50	1.30	1.40		21.00	
		1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.50	1.40		21.00	
		1.00	15.00	1.50	1.20	1.35		20.25	
		1.00	3.00	1.20	1.30	1.25		3.75	
	2nd Cross From 10th Main	1.00	15.00	1.50	1.80	1.65		24.75	
		1.00	15.00	1.80	1.10	1.45		21.75	
		1.00	15.00	1.10	1.30	1.20		18.00	
		1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.20	1.30	1.25		18.75	
		1.00	15.00	1.30	1.40	1.35		20.25	
		1.00	15.00	1.40	1.50	1.45		21.75	
		1.00	9.30	1.50	1.80	1.65		15.35	
	2nd Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.20	1.40	1.30		19.50	
		1.00	15.00	1.40	1.50	1.45		21.75	
		1.00	15.00	1.50	1.30	1.40		21.00	
		1.00	15.00	1.30	1.50	1.40		21.00	
		1.00	5.00	1.50	1.60	1.55		7.75	
	4th Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25		18.75	
		1.00	15.00	1.30	1.50	1.40		21.00	
		1.00	15.00	1.50	1.30	1.40		21.00	
		1.00	15.00	1.20	1.30	1.25		18.75	
								783.65	
	Total							782.50	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Uni
	Measurements Recarded on : 15-06-2021								
11	Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen								Cum
	NTI Layout								
	1sr Cross Road								
	From 10th Main	1.00	15.00	1.50	1.20	1.35	0.05	1.01	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.35	1.33	0.05	0.99	
		1.00	15.00	1.35	1.40	1.38	0.05	1.03	
		1.00	15.00	1.40	1.20	1.30	0.05	0.98	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.40	1.35	0.05	1.01	
		1.00	14.00	1.40	1.50	1.45	0.05	1.02	
	7th Cross BEL 4th Block from Temple Road	1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.30	1.40	1.35	0.05	1.01	
		1.00	15.00	1.40	1.50	1.45	0.05	1.09	
		1.00	15.00	1.50	1.30	1.40	0.05	1.05	
		1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.50	1.40	0.05	1.05	
		1.00	15.00	1.50	1.20	1.35	0.05	1.01	
		1.00	3.00	1.20	1.30	1.25	0.05	0.19	
	2nd Cross From 10th Main	1.00	15.00	1.50	1.80	1.65	0.05	1.24	
		1.00	15.00	1.80	1.10	1.45	0.05	1.09	
		1.00	15.00	1.10	1.30	1.20	0.05	0.90	
		1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
		1.00	15.00	1.30	1.40	1.35	0.05	1.01	
		1.00	15.00	1.40	1.50	1.45	0.05	1.09	
		1.00	9.30	1.50	1.80	1.65	0.05	0.77	
	2nd Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.20	1.40	1.30	0.05	0.98	
		1.00	15.00	1.40	1.50	1.45	0.05	1.09	
		1.00	15.00	1.50	1.30	1.40	0.05	1.05	
		1.00	15.00	1.30	1.50	1.40	0.05	1.05	
		1.00	5.00	1.50	1.60	1.55	0.05	0.39	
	4th Cross Sapthagiri Layout	1.00	15.00	1.30	1.20	1.25	0.05	0.94	
		1.00	15.00	1.30	1.50	1.40	0.05	1.05	
		1.00	15.00	1.50	1.30	1.40	0.05	1.05	
		1.00	15.00	1.20	1.30	1.25	0.05	0.94	
								39.18	
	Total							39.12	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Pre-Measurement

Measurements Recarded on : 19-06-2021

No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit
12	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.								Sqm
	NTI Layout								
	1sr Cross Road								
	From 10th Main	1.00	15.00	8.00	5.20	6.60		99.00	
		1.00	15.00	5.20	5.00	5.10		76.50	
		1.00	15.00	5.00	5.00	5.00		75.00	
		1.00	15.00	5.00	5.20	5.10		76.50	
		1.00	15.00	5.20	4.70	4.95		74.25	
		1.00	15.00	4.70	5.00	4.85		72.75	
		1.00	15.00	5.00	4.90	4.95		74.25	
		1.00	15.00	4.90	7.00	5.95		89.25	
		1.00	15.00	7.00	4.70	5.85		87.75	
		1.00	15.00	4.70	5.30	5.00		75.00	
		1.00	15.00	5.30	5.20	5.25		78.75	
		1.00	15.00	5.20	4.90	5.05		75.75	
		1.00	15.00	4.90	5.90	5.40		81.00	
		1.00	14.00	5.90	7.00	6.45		90.30	
	7th Cross BEL 4th Block								
	From Ganesha Temple Road	1.00	15.00	7.50	5.50	6.50		97.50	
		1.00	15.00	5.50	5.10	5.30		79.50	
		1.00	15.00	5.10	5.60	5.35		80.25	
		1.00	15.00	5.60	5.80	5.70		85.50	
		1.00	15.00	5.80	5.70	5.75		86.25	
		1.00	15.00	5.70	5.70	5.70		85.50	
		1.00	15.00	5.70	5.30	5.50		82.50	
		1.00	15.00	5.30	5.70	5.50		82.50	
		1.00	3.00	5.70	7.00	6.35		19.05	
	2nd Cross								
	From 10th Main	1.00	15.00	6.10	4.60	5.35		80.25	
		1.00	15.00	4.60	4.60	4.60		69.00	
		1.00	15.00	4.60	4.20	4.40		66.00	
		1.00	15.00	4.20	4.80	4.50		67.50	
		1.00	15.00	4.80	4.90	4.85		72.75	
		1.00	15.00	4.90	6.50	5.70		85.50	
		1.00	15.00	6.50	5.30	5.90		88.50	
		1.00	9.30	5.30	6.50	5.90		54.87	
	2nd Cross Sapthagiri Layout								
		1.00	15.00	5.50	5.00	5.25		78.75	
		1.00	15.00	5.00	4.80	4.90		73.50	
		1.00	15.00	4.80	4.90	4.85		72.75	
		1.00	15.00	4.90	5.00	4.95		74.25	
		1.00	15.00	5.00	4.80	4.90		73.50	
		1.00	5.00	4.80	5.00	4.90		24.50	
	4th Cross Sapthagiri Layout								

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

2806.22

Sl No	Description of work	Mesurement						Qty	Rate / Unit
		No.	L	B1	B2	Av.,B	D		
		1.00	15.00	6.00	5.80	5.90		88.50	
		1.00	15.00	5.80	5.90	5.85		87.75	
		1.00	15.00	5.90	6.00	5.95		89.25	
		1.00	15.00	6.00	6.10	6.05		90.75	
	Deduction for Chambers	9.00	3.14			0.75		-21.21	
								3141.26	
	Total							**3130.00**	

28.06.22

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97